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8554 KATY FREEWAY			ART UNIT	PAPER NUMBER
SUITE 100			2631	
HOUSTON, T	X 77024		DATE MAILED: 03/17/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/471,435	MCTAGUE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Khanh Tran	2631	
<ul> <li>The MAILING DATE of this communication</li> <li>Period for Reply</li> </ul>	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by such any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a r. n. a reply within the statutory minimum of thint eriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	eply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 1	8 October 2004.		
2a)⊠ This action is <b>FINAL</b> . 2b)□	This action is non-final.		
3) Since this application is in condition for allocation accordance with the practice und	·	• •	
Disposition of Claims			
4) Claim(s) 1, 3-7, 9-15, 17-28 and 30 is/are page 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-7,9-15,17-28 and 30 is/are rej 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Exam  10) ☑ The drawing(s) filed on 12/23/1999 is/are:  Applicant may not request that any objection to  Replacement drawing sheet(s) including the col  11) ☐ The oath or declaration is objected to by the	a)  accepted or b)  objecte the drawing(s) be held in abeyan rrection is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority documed Social Certified copies of the priority document Social Copies of the certified copies of the priority document Social Copies of the certified copies of the priority document Social Copies of the certified copies of the priority document Social Copies of the certified copies of the priority document Social Copies of the certified copies of the priority document Social Copies of the priority document S	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date</li> </ol>	Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152) 	

### **DETAILED ACTION**

1. The Amendment filed on 10/18/2004 has been entered. Claims 1, 3-7, 9-15, 17-28 and 30 are pending in this Office action.

## Response to Arguments

- 2. Applicant's arguments filed on 10/18/2004 have been fully considered but they are not persuasive.
  - 3. Response to Applicants' arguments on page 6 of the Remarks:

Applicants argue that "the Office action suggests that Kanekawa utilizes a highly dielectric capacitor. The Examiner suggests that figure 6 indicates that the capacitor is a separate integrated circuit. But it does not seem to be the case. In other words, there is nothing to indicate that what is shown in figure 6 is its own separate integrated circuit. It is equally possible that what is shown in figure 6 is simply a portion of a circuit, such as an integrated circuit. This is borned out by figure 6B. Moreover, it does not appear that the capacitor could constitute the claim's second integrated circuit, which must include a demultiplexer to demultiplex said lower data rate data and said control information. Most certainly, there is no indication anywhere in Kanekawa that the items 50-2, 50-1, and 50-2 are on monolithic integrated circuits". Applicants further argue that "the Examiner suggests that the 50-1, and 50-2 could be formed for a separate integrated circuit. Of course, anything is possible. The only relevant issue though is actually taught. Since

Art Unit: 2631

doing this is only devined from Kanekawa with the benefit of hindsight reasoning, a prima facie rejection is not made out".

The Examiner disagrees with Applicant's arguments. In column 7 lines 35-40, Kanekawa et al. clearly teaches figure 6 shows the isolating capacitor 2 formed on a monolithic integrated circuit (IC) [Emphasis added]. Yukutake et al. further teaches a multi-channel capacitive isolator which is formed into a monolithic isolator chip as shown in figure 21e; see column 25, lines 25-45, see also figure 21e. Also in Yukutake et al. invention, in column 8, lines 45-64, application for using a multi-channel monolithic isolator is shown in figure 2, wherein the multi-channel monolithic isolator occupies the isolator 602 to insulate and separate the circuit areas 601 603. The circuit areas 601 603 form an analog I/O circuit area 601, and a digital I/O side circuit area 603. In light of Yukutake et al. foregoing teachings, one of ordinary skill in the art at the time the invention was made that isolating capacitors 2-0 2-1 and 2-2 of an isolators 50-0 50-1 and 50-2 as taught by Kanekawa et al. can be formed on the same monolithic IC, as taught in Yukutake et al. invention. As result of the aforementioned teachings, there is no *hindsight rejection reasoning* as argued by Applicants, on the contrary, Kanekawa et al. and Yukutake et al. explicitly teach the capacitive isolator can be formed on a monolithic IC. As stated in previous Office action, the motivation for modifying Kanekawa et al. to include a portion of Yukutake et al. teachings is that Kanekawa et al. and Yukutake et al. teachings are in the same field of endeavor and disclose utilization of isolating capacitors formed on a monolithic IC in modem application. Both teachings teach the isolators being employed on an analog front of a modem to electrically

Art Unit: 2631

separate and insulate the analog I/O side and digital I/O side as discussed in Yukutake et al. teachings, the analog I/O side and digital I/O side corresponding to the subscriber line side and the host side as taught in Kanekawa et al. invention.

Applicants further argue that "<u>Likewise</u>, <u>concerning the argument that "with the advance of IC technology</u>, <u>one of ordinary skill in the art will appreciate that the cited regions can be formed on an integrated circuit"</u>, it is known what advance in IC technology that the Examiner could be referring to. As integrated circuits advances fewer, not more, separate integrated circuits are used".

Examiner's position is that as expressly taught in Kanekawa et al. invention, isolating capacitors 2-0 2-1 ... of an isolators 50-0 50-1 50-2 ... are employed to isolate the region on the host side from the subscriber line side; see column 12 line 25 through column 13 line 35, see also figures 21 22 23. Similarly, in column 8, lines 45-67, Yukutake et al. teaches the layout as shown in figure 2, the circuit areas 601 602 603 are enclosed by trenches so as to form an analog I/O side circuit area 601, an isolator area 602, and a digital I/O side circuit area 603. By enclosing each circuit block in the circuit areas 601 to 603, the circuits are insulated and separated from each other and the devices are separated [Emphasis added]. Due to the layout as shown in figure 2 of Yukutake et al. invention, the circuit areas 601 602 603 are separate areas and insulated from each other. And as recited above, because the isolator area 602 can be implemented on a monolithic integrated circuit, one of ordinary skill in the art of IC technology would have been motivated to implement the circuit areas 601 and 603 on

Art Unit: 2631

separate integrated circuits. As further described in the Summary of the Invention, Yukutake et al. teachings is to realize an IC isolator using the monolithic insulating barrier, IC application circuits, IC line interface or an analog front end (AFE) including an interface or conversion circuits for analog and digital circuits. The conversion circuits for analog and digital circuits would qualify as IC application circuits, also known as chips. The <u>benefits of using separate chips (IC circuits) are to make the design highly modular</u> as appreciated by a person of average skill in the art of integrated circuit technology. The motivations for isolating and separating the regions are part of Yukutake et al. and Kanekawa et al. teachings.

4. In light of the foregoing reasoning, the Examiner maintains the rejection of all claims as stated in previous Office action. The previous Office action is recited below for references:

## Claim Rejections - 35 USC § 103

Claims 1, 3-7, 9-10, 14-15, 17, 20-23, 25-26, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanekawa et al. U.S. 6,389,063 B1 in view of Yukutake et al. U.S. 6,603,807 B1.

Regarding claim 1, Kanekawa et al. invention is directed to an insulating coupler, or insulating amplifier, or an isolator utilized for electrically separating and insulating between circuits, and a modern utilizing the isolator. In particular, Kanekawa et al. invention utilizes a highly dielectric capacitor that does not break

Art Unit: 2631

down the device (e.g. a modem in figure 20) and prevents a dangerous voltage from passing the secondary side even if a high voltage is applied.

In column 12 line 1 through column 13 line 35, figure 20 shows a constitution of a modem including a DC blocking switch 204, an analog front end (AFE) 100, and a host 203. The host 203 executes modulation of a sending signal, demodulation of a receiving signal, filtering, and other necessary processes, wherein the host 203 is further realized by a DSP (digital signal processor).

Figure 23 shows a constitution of AFE 100, wherein a clock signal CLK inputted from the host side is transmitted the subscriber line side via an isolating capacitor 2-0 of an isolator 50-0. Control circuits 101 and 102 exchange necessary control information via isolators 2-1 and 2-2 of isolators 50-1 and 50-2.

As appreciated by one of ordinary skill in the art, AFE 100 is implemented on an integrated circuit. Figure 6 shows the isolating capacitor (isolator) formed on a monolithic integrated circuit. In view of that, it would have been obvious for one of ordinary skill in the art at the time the invention was made that since isolators 50-2, 50-1 and 50-2 could be formed on monolithic integrated circuits and electrically separating and insulating AFE 100, AFE 100 effectively forms two separate regions, constituting equivalent first and second integrating circuits as claimed in the pending application. The second region on the host side also includes the host 203. Furthermore, with the advance of

Art Unit: 2631

IC technology, one of ordinary skill in the art will appreciate the recited regions can be formed on integrated circuit.

The first region connecting to the subscriber line side includes an analog-to-digital converter (ADC) 105 producing data at a relatively higher data rate due to oversampling, a multiplexer 111 for multiplexing the data rate and coded control information from the control circuit 101.

A second region, connecting to the host side, includes a demultiplexer 112 for demultiplexing the data rate and control information, and a low pass filter and decimator 106 for reducing the data rate. Kanekawa et al. does not show the low pass and decimator 106 coupled to ADC 105 for reducing higher data rate from ADC 105 as claimed in the pending application. Nevertheless, Yukutake et al. discloses a very similar AFE arrangement (see figure 2) in another US patent wherein a decimator 515 coupled to ADC 514 for reducing higher data rate from ADC 514 to transmit the lower data rate data across isolators. Kanekawa et al. and Yukutake et al. teachings are in the same field of endeavor and disclose utilization isolators in a modem. In view of that foregoing reasoning, it would have been obvious for one of ordinary skill in the art at the time the invention was made that Kanekawa et al. AFE can be modified to implement the low pass and decimator 106 between ADC 105 and MUX 111 for reducing higher data rate data from ADC 105 as claimed in the

pending application. Furthermore, the modification will not have any effect on the modern operation.

As result of the modification, with low pass filter and decimator 106 coupled between ADC 105 and MUX 111, MUX 111 multiplexes lower data rate data and coded control information and transmit lower data rate data and coded control information externally of the first region on the subscriber line side, corresponding to the claimed first integrated circuit, to the region on the host side isolated from the subscriber line side via an isolating capacitor 2-1 of an isolator 50-1. The region on the host side, corresponding to the claimed second integrated circuit, includes a de-multiplexer DE-MUX 112 for de-multiplexing lower data rate data and coded control information as claimed in the pending application.

Regarding claims 3 and 25, with the modification as recited in claim 1, low pass filter and decimator 106 coupled between ADC 105 and MUX 111 in the region on subscriber line side includes a decimation filter as claimed.

Regarding claim 4, with the modification as recited in claim 1, referring to figure 23 above, the first region, corresponding the claimed first integrated circuit as discussed in claim 1, includes an analog pre-filter 104, corresponding to the claimed analog filter, wherein the analog pre-filter 104 is coupled to ADC 105 in turn coupled to low pass filter and decimator 106 in turn coupled to MUX 111.

Art Unit: 2631

Regarding claim 5, referring to figure 23 again, the region on the subscriber line side includes a DE-MUX 113 (de-multiplexer) coupled to a digital-to-analog converter (DAC) 109. Kanekawa et al. does not show a device that increases the data rate of data received by a de-multiplexer as claimed. Nevertheless, using analogous reasoning and motivation as for claim 1 when modifying Kanekawa et al. AFE 100 to couple low pass filter and decimator 106 between ADC 105 and MUX 111, a low pass filter and interpolator 110 in the region on the host side can be modified to locate in the region on the subscriber line side between DE-MUX 113 and a DAC 109 for interpolating a digital signal transmitted from the host side to a signal at the oversampling frequency.

Regarding claims 6 and 26, as recited in claim 5, a low pass filter and interpolator 110 includes an interpolation filter.

Regarding claim 7, referring to figure 23, the region on the subscriber line side further includes a sending amplifier 107, and a receiving amplifier 103, wherein both sending amplifier 107, and receiving amplifier 103 are representative of both a receiver section and a transmitter section as appreciated by one of ordinary skill in the art.

Regarding claim 9, as recited in claim 1, the host 203 connected to the analog front end 100 executes modulation of a sending signal, demodulation of a receiving signal, filtering, and other necessary processes, wherein the host 203 is realized by a DSP (digital signal processor). As appreciated by one of ordinary skill in the art that,

Art Unit: 2631

discrete multi-tone modulation (DMT) is known to be implemented in digital subscriber line (DSL) modem such as the modem illustrated in figure 20. Even though Kanekawa et al. does not expressly teach DMT implemented in the modem of figure 20, one of ordinary skill in the art would have been motivated to implement discrete multi-tone modulation in Kanekawa et al. modem because Kanekawa et al. expresses that the host 203 can be realized by a DSP which is known to implement DMT in the modem.

Regarding claim 10, as recited in claim 1, the host 203 connected to the analog front end 100 executes modulation of a sending signal, demodulation of a receiving signal, filtering, and other necessary processes, wherein the host 203 is realized by a DSP (digital signal processor).

Regarding claim 14, the rejection argument is analogous to that as for claim 1 because claims 1 and 14 are very much similar in scope. Referring to figure 23, on the subscriber line side, a receiving amplifier 103 receives an analog data. ADC 105 converts the analog data into digital format.

Kanekawa et al. does not show the step of decreasing the data rate of said data on the subscriber line side as claimed. Kanekawa et al., however, discloses a low pass filter and decimator 106 for reducing the data rate on the host side. Using analogous reasoning and motivation as for claim 1 to modify Kanekawa et al. AFE 100 to couple low pass filter and decimator 106 between ADC 105 and MUX 111 on the subscriber line side.

Art Unit: 2631

With the modification, low pass filter and decimator 106 reduces the data rate data from ADC 105. As appreciated by one of ordinary skill in the art, MUX 111 performs both serialization of data and multiplexing serialized data with coded control information. MUX 111 transmits serialized data with coded control information to the region on host side isolated from the subscriber line side via an isolating capacitor 2-1 of an isolator 50-1.

In the region on host side, a DE-MUX 112 de-multiplexes serialized data with coded control information. As recited in claim 1, the region on the host side including the host 203 is equivalent to the second integrated circuit for the reason as stated in claim 1.

Regarding claim 15, with the modification as recited in claim 1, low pass filter and decimator 106 coupled between ADC 105 and MUX 111 on the subscriber line side performs decimating the digital data.

Regarding claim 17, similar to the reasoning for MUX 111 as recited in claim 14, as appreciated by one of ordinary skill in the art that the demultiplexing process of DE-MUX 112 demultiplexes data into individual data streams. In view of that, the process corresponds to deserializing digital data as claimed.

Regarding claim 20, referring back to figure 23, Kanekawa et al. shows a low pass filter and interpolator 110 for increasing the data rate of the data the region on the

host side, corresponding to the second integrated circuit as explained in claim 1. Using analogous reasoning and motivation as for claim 5, it would have been obvious for one of ordinary skill in the art that the low pass filter and interpolator 110 can be modified to couple between DE-MUX 113 and DAC 109 for increasing the data rate of the data as claimed. The region of the subscriber line side receives digital data transmitted from the region on host side.

Regarding claim 21, as recited in claim 20, the low pass filter and interpolator 110 includes an interpolator for interpolating said data.

Regarding claim 22, DAC 109 converts digital data back to an analog format signal.

Regarding claim 23, using analogous reasoning and motivation as for claim 1 due to similar scope, referring back to figure 23, the region on the subscriber line side, equivalent to the claimed first integrated circuit, includes ADC 105, MUX 111 corresponding to the claimed serializer. The low pass filter and decimator 106 for reducing the data rate data, corresponding to the claimed device, is on the region on the host side. However, with the modification and motivation as stated in claim 1, low pass filter and decimator 106 can be modified to couple between ADC 105 and MUX 111 on the region of the subscriber line side.

Page 13

Art Unit: 2631

In view of that, MUX 111 multiplexes lower data rate data and coded control information and transmit lower data rate data and coded control information externally of the first region on the subscriber line side, corresponding to the claimed first integrated circuit, to the region on the host side isolated from the subscriber line side via an isolating capacitor 2-1 of an isolator 50-1. The region on the host side, corresponding to the claimed second integrated circuit, includes a de-multiplexer corresponding to the claimed de-serializer, wherein DEMUX 112 for de-multiplexing lower data rate data and coded control information before transmitting to the host 203.

Regarding claim 28, Kanekawa et al. does not expressly disclose the modem in figure 20 is splitterless. However, the modem in figure 20 suggests a splitterless modem as appreciated by one of ordinary skill in the art.

Regarding claim 30, referring to figure 23 again, lower data rate data is transmitted to the region on host side through low pass filter and decimator 106, and to the region on subscriber line side through low pass filter and interpolator 110. In view of that, lower data rate data is transmitted in two directions as claimed in the pending application.

Claims 11, 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanekawa et al. U.S. 6,389,063 B1 and Yukutake et al. U.S. 6,603,807 B1 as applied to claim 9 and further in view of Isaksson et al. U.S. Patent 6,359,926 B1.

Application/Control Number: 09/471,435 Page 14

Art Unit: 2631

Regarding claim 11, since the host 203 executes modulation of a sending signal, demodulation of a receiving signal, filtering, and other necessary processes, the host 203 includes a line decoder as appreciated by one of ordinary skill in the art.

Furthermore, DMT system is well known in the art of DSL modem, and is discussed in Isaksson et al. invention. Figure 4 illustrates a DMT transceiver including an analog front end and a digital receiver unit and a digital transmitter unit. Since Kanekawa et al. modem can be modified to implement DMT which always utilizes a Fourier transformer and an inverse Fourier transformer, it would have been obvious for one of ordinary skill in the art at the time the invention was made that the host 203 can be modified to include a Fourier transformer as that shown in figure 4 of Isaksson et al. invention.

Regarding claim 18, said claim is rejected using analogous argument as for claim 11. The fast Fourier transformer included in the host 203 effectively increases the data rate due to the Fourier transform process as known in the art of DSL modems.

Regarding claim 19, as recited in claim 18, said claim is rejected using analogous argument as for claim 11. In claim 11, the host 203 is modified to implement DMT, resulting utilization of a fast Fourier transformer.

Claims 12-13, 24, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanekawa et al. U.S. 6,389,063 B1 and Yukutake et al. U.S. 6,603,807 B1 as applied to claim 1 and further in view of Isaksson et al. U.S. Patent 6,359,926 B1.

Regarding claim 12, claim 1 rejection argument addresses all the limitations of claim 12, except the limitation encompassing a second integrated circuit as set forth in claim 12. As recited in claim 1, the host 203 executes modulation of a sending signal, demodulation of a receiving signal, filtering, and other necessary processes, the host 203 includes a line encoder as appreciated by one of ordinary skill in the art.

Furthermore, using analogous reasoning and motivation as for claim 11, DMT system is well known in the art of DSL modem, and is discussed in Isaksson et al. invention.

Since Kanekawa et al. modem can be modified to implement DMT, it would have been obvious for one of ordinary skill in the art at the time the invention was made that the host 203 can be modified to further include a scaling and inverse fast Fourier transformer (IFFT) as shown in figure 4 of Isaksson et al. invention.

Regarding claims 13 and 27, as recited in claim 12, the host 203 also includes a scaling and inverse fast Fourier transformer (IFFT) similar to that shown in figure 4 of Isaksson et al. invention.

Regarding claim 24, claims 13 and 24 are very similar in scope. Claim 24 is rejected on the same ground as claim 13. The modulating circuit for decreasing the data rate of digital data in claim 24 corresponds to an inverse fast Fourier Transformer which has been rejected as stated in claim 13. The serializer on the second integrated circuit in claim 24 corresponds to a serializer in claim 12 on which claim 13 depends.

Application/Control Number: 09/471,435 Page 16

Art Unit: 2631

However, claim 13 does not address the first integrated circuit including a de-serializer as set forth in claim 24. The de-serializer as set forth in claim 24 has been addressed in the rejection of claim 5 wherein DE-MUX 113 performs equivalent function of a de-serializer.

Furthermore, as recited in claim 5, referring to figure 23 again, the region on the subscriber line side includes a DE-MUX 113 (de-multiplexer) coupled to a digital-to-analog converter (DAC) 109. Kanekawa et al. does not show a low pass filter and interpolator 110 in the region on the subscriber line side, corresponding to the claimed device that increases the data rate of data received by a demultiplexer as claimed. Nevertheless, using analogous reasoning and motivation as for claim 1 when modifying Kanekawa et al. AFE 100 to couple low pass filter and decimator 106 between ADC 105 and MUX 111, a low pass filter and interpolator 110 in the region on the host side can be modified to locate in the region on the subscriber line side between DE-MUX 113 and a DAC 109 for interpolating a digital signal transmitted from the host side to a signal at the oversampling frequency.

### Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 09/471,435 Page 17

Art Unit: 2631

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 571-272-3007. The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2631

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